

CLAIMS:

What we claim as our invention is:

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1. An integrated, anti-marking cover for a transfer cylinder in a rotary printing press, comprising a flexible jacket covering permanently attached to a cylinder base cover.
 2. The integrated cover of claim 1 wherein the flexible jacket covering and cylinder base cover are aligned and permanently attached along their edges.
 3. The integrated cover of claim 2 wherein the flexible jacket covering and cylinder base cover are permanently attached along their edges by means for permanently attaching.
 4. The integrated cover of claim 3 wherein means for permanently attaching include stitching, adhesive, mechanical fasteners, and combinations thereof.
 5. The integrated cover of claim 3 wherein the flexible jacket covering is sized such that in areas not permanently attached to the cylinder base cover, a predetermined amount of movement of the flexible jacket covering is permitted relative to the cylinder base cover.
 6. The integrated cover of claim 5 wherein movement in the weft direction is about 1/16 to 4 inches (1.6 to 101.6 mm) and movement in the warp direction is about 1/32 to 1 inch (0.8 to 25.4 mm).
 7. The integrated cover of claim 1 wherein the cylinder base cover is conductive.
 8. The integrated cover of claim 2 wherein the cylinder base cover is conductive.
 9. The integrated cover of claim 5 wherein the cylinder base cover is conductive.

10. The integrated cover of claim 9 wherein the conductive cylinder base cover further comprises a layer of PTFE adhered to a layer of polyester, the PTFE layer facing the flexible jacket.
11. The integrated cover of claim 10 wherein the PTFE layer has a smooth surface portion.
12. The integrated cover of claim 10 wherein the PTFE layer has a textured surface portion.
13. The integrated cover of 10 further comprising at least one hole therein.
14. The integrated cover of claim 1 wherein the flexible jacket covering comprises a flexible fabric material having spaced conductive strands.
15. The integrated cover of claim 2 wherein the flexible jacket covering comprises a flexible fabric material having spaced conductive strands.
16. The integrated cover of claim 5 wherein the flexible jacket covering comprises a flexible fabric material having spaced conductive strands.
17. The integrated cover of claim 10 wherein the flexible jacket covering comprises a flexible fabric material having spaced conductive strands.
18. The integrated cover of claim 1 further comprising means for releaseably attaching the integrated cover to the transfer cylinder.
19. The integrated cover of claim 2 further comprising means for releaseably attaching the integrated cover to the transfer cylinder.

20. The integrated cover of claim 5 further comprising means for releaseably attaching the integrated cover to the transfer cylinder.
21. The integrated cover of claim 17 further comprising means for releaseably attaching the integrated cover to the transfer cylinder.
22. The integrated cover of claim 21 wherein the releaseably attaching means include adhesive, a clamp, a mechanical fastener, a take up reel; a hook and loop fastener, magnetic strips, tack strips, and combinations thereof.
23. The integrated cover of claim 1 further comprising means for aligning the integrated cover for attachment to the transfer cylinder.
24. The integrated cover of claim 2 further comprising means for aligning the integrated cover for attachment to the transfer cylinder.
25. The integrated cover of claim 5 further comprising means for aligning the integrated cover for attachment to the transfer cylinder.
26. The integrated cover of claim 21 further comprising means for aligning the integrated cover for attachment to the transfer cylinder.
27. The integrated cover of claim 26 wherein the alignment means are contrasting alignment stripes in the flexible jacket covering.
28. The integrated cover of claim 27 wherein the alignment means further comprise at least one center alignment mark on the gripper edge, the tail edge, or both.

29. The integrated cover of claim 27 wherein the contrasting alignment stripes are the conductive strands.
30. A method of manufacturing an integrated, anti-marking cover for a transfer cylinder in a rotary printing press, comprising permanently attaching a flexible jacket covering to a cylinder base cover.
31. The method of claim 30 wherein the flexible jacket covering is about the same shape as the cylinder base cover, the flexible jacket and cylinder base cover being aligned and permanently attached along their edges.
32. The method of claim 31 wherein the flexible jacket covering and cylinder base cover are permanently attached along their edges by stitching, adhesive, mechanical fasteners, or combinations thereof.
33. The method of claim 32 wherein the flexible jacket covering is sized such that in areas not permanently adhered to the cylinder base cover, a predetermined amount of movement of the flexible jacket covering is permitted relative to the cylinder base cover.
34. The method of claim 33 wherein movement in the weft direction is about 1/16 to 4 inches (1.6 to 101.6 mm) and movement in the warp direction is about 1/32 to 1 inch (0.8 to 25.4 mm).
35. A method for attaching an integrated, anti-marking cover to a transfer cylinder in a rotary printing press, comprising supplying an integrated cover comprising a flexible jacket

covering permanently attached to a cylinder base cover and releasably attaching the integrated cover to the transfer cylinder using means for releasably attaching.

36. The method of claim 35 wherein the printing press has at least four colors and is manufactured by Komori Corp. and the means for releasably attaching comprise a take up reel.

37. A method for supporting a processed substrate in a rotary printing press, comprising supplying an integrated, anti-marking cover comprising a flexible jacket covering permanently attached to a cylinder base cover; releasably attaching the integrated cover to the transfer cylinder using means for releasably attaching; and operating the printing press to process substrates, the substrates being supported by the integrated cover during the operation of the printing press.